

**METHOD TO PROTECT DATA ON A DISK DRIVE
FROM UNCORRECTABLE MEDIA ERRORS**

ABSTRACT OF THE DISCLOSURE

Protection from uncorrectable media errors are provided for a RAID-configured storage system by a technique in which c redundancy information sectors are associated with n data information sectors. The n data sectors and c redundancy information sectors are then written as a single segment on a single storage unit. The RAID-configured storage system can be configured, for example, as a RAID 6 storage system, a RAID 5 storage system, a RAID 51 storage system, a RAID 3 + 3 storage system or a RAID $N + 3$ storage system. The redundancy information can be based on a Reed-Solomon code, an XOR-based code, or one-dimensional parity.